

S

628.161 Groundwater sampling  
M26gsr results, Livingston  
Aug. 1990 Rail Yard  
[Rev.]







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M2695r  
[Revised ed.]

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ENVIROCON, INC.

Aug. 1990

101 INTERNATIONAL WAY  
POST OFFICE BOX 8243  
MISSOULA, MONTANA 59807  
TELEPHONE: (406) 523-1150  
FAX: (406) 721-4794

**ENVIROCON, INC.**

PLEASE RETURN

February 13, 1991  
ENV #140101F02

Solid and Hazardous Waste Bureau  
Department of Health and  
Environmental Sciences  
Cogswell Building  
Helena, Montana 59620

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Attention: John Wadhams

**Subject: Revisions to the August 1990 Quarterly Ground Water Sampling Results Report**

Dear John:

During November 1990, Energy Laboratories, Inc. (ELI) submitted to Envirocon revised analytical results of a sample that was collected during Envirocon's August 1990 sampling round. The sample location is Well 89-1. The original results reported by ELI showed <0.5 ppb of PCE for Well 89-1. The revised results showed 2.4 ppb of PCE. Envirocon has, therefore, revised the August 1990 Quarterly Ground Water Sampling Results report to reflect this change.

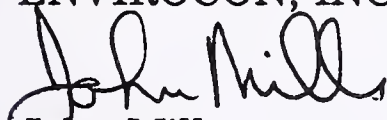
Enclosed are 18 copies of a revised map, a revised table, and the revised analytical results which replace the incorrect information in the August 1990 Quarterly Ground Water Sampling Results report.

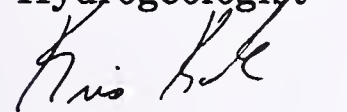
Mr. John Wadhams  
February 13, 1991  
Page Two

If you have any questions regarding this submittal, please feel free to contact me.

Sincerely,

ENVIROCON, INC.

  
John Mills  
Hydrogeologist

  
Kris Kok  
Project Manager

JPM\pm

Enclosures

cc: Mel Burda

Dennis Iverson

Steve Pilcher

Mike Stevenson

Missoula file

TABLE 2.0  
COMPARISON OF QUARTERLY ANALYTICAL RESULTS - PCE

WELL NO.	PCE (ug/l)					
	MAY	AUG	NOV	FEB	MAY	AUG
1		0.62	0.65		<0.5	<0.5
2		1.3	0.55	0.51	0.66	0.52
3	0.69	0.74	0.50		<0.50	
4		<0.5		<0.5	<0.5	<0.5
5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6	7.1	4.9	3.6	1.9	2.6	4.6
7	33	0.5	0.5	7.9	8	<0.5
8	180	126	123		148	
11		<0.5	<0.5		<0.5	<0.5
L-87-1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-87-2			1.7	4.9	1.7	
L-87-3	262	195	200	227	228	100
L-87-4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-87-5	335	367	358	238		
L-87-7		<0.5	<0.5	<0.5	<0.5	<0.5
L-87-8	58	98	86	69	16	48
L-88-9	<0.5	<0.5	<0.5	<0.5	<0.5	
L-88-10	160	155	165	177	168	127
L-88-11	<0.5	<0.5	<0.5	<0.5	<0.5	
L-88-12	255	197	250	171	150	
L-88-13	52	80	66	60	54	77
LS-6	<0.5	<0.5	<0.5		<0.5	<0.5
LS-7	<0.5	<0.5	<0.5	<0.5	<0.5	
LS-8	146	98	61	124	100	50
LS-10					<0.5	<0.5
LS-11	115	23	12	88	86	20
RAINBOW	35		64	35	24	96
DEPUY			7.2			
BURNS			<0.5			
POTW	73	46	23	68	99	40
B-STR.		**	<0.5	<0.5	<0.5	<0.5
D-STR.		<0.5			<0.5	<0.5
L-STR.	<0.5	<0.5	<0.5	<0.5	<0.5	
Q-STR.	0.66	0.95	0.71	0.5	0.76	
CLARENCE		<0.5	<0.5			
WERNER		<0.5	<0.5			
GEYSER TC				<0.5	<0.5	<0.5
LG-10				<0.5	<0.5	<0.5
89-1				10	18	2.4
89-2				<0.5	<0.5	<0.5
89-3				272	270	430
89-4				530	530	158
89-6				28	28	
89-7				32	20	
89-8				<0.5	<0.5	
89-9					302	330
89-10					163	
89-11					<0.5	<0.5
90-1				385	480	
90-2						
90-3					76	15
90-4					<0.5	
90-5					<0.5	

ENVIROCON  
PO BOX 1154  
LIVINGSTON MT 59047

# Water Analysis

PROJECT: Livingston / BN

LAB NO.	90-23676
SAMPLE IDENTIFICATION	140101-554
SAMPLE SUBMITTED	08/31/90
DATE REPORTED	09/18/90
REVISED DATE	11/07/90
SAMPLE DATE	08/30/90
SAMPLE TIME	1135

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NOV 12 1990

ENVIROCON, Inc.  
Livingston, Mt.

CONSTITUENT	ug/l
Dichlorodifluoromethane	<1.0
Chloromethane	<1.0
Vinyl chloride	<0.50
Bromomethane	<1.0
Chloroethane	<1.0
Trichlorofluoromethane	<1.0
1,1-Dichloroethene	<0.50
Methylene Chloride	<1.0
trans-1,2-Dichloroethene	<1.0
1,1-Dichloroethane	<1.0
2,2-Dichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0
Chloroform	<1.0
Bromochloromethane	<1.0
1,1,1-Trichloroethane	<0.50
Carbon Tetrachloride	<0.50
1,1-Dichloropropene	<1.0
Benzene	<0.50
1,2-Dichloroethane	<0.50
Trichloroethene	<0.50
1,2-Dichloropropane	<1.0
Bromodichloromethane	<1.0
Dibromomethane	<1.0
Toluene	<1.0
1,1,2-Trichloroethane	<1.0
Tetrachloroethene	2.4
1,3-Dichloropropane	<1.0
Dibromochloromethane	<1.0
1,2-Dibromoethane	<1.0
Chlorobenzene	<1.0
1,1,1,2-Tetrachloroethane	<1.0



Page 2

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PO BOX 1154  
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RECEIVED

NOV 12 1990

ENVIROCON, Inc.  
Livingston, Mt.

Water Analysis

PROJECT: Livingston/BN

LAB NO.

SAMPLE IDENTIFICATION

SAMPLE SUBMITTED

DATE REPORTED

REVISED DATE

SAMPLE DATE

SAMPLE TIME

89-1  
90-23676  
140101-554  
08/31/90  
09/18/90  
11/07/90  
08/30/90  
1135

CONSTITUENT

Ethylbenzene	ug/l
p-Xylene	<1.0
m-Xylene	<1.0
o-Xylene	<1.0
Styrene	<1.0
Bromoform	<1.0
Isopropylbenzene	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Bromobenzene	<1.0
1,2,3-Trichloropropane	<1.0
n-Propylbenzene	<1.0
2-Chlorotoluene	<1.0
1,3,5-Trimethylbenzene	<1.0
4-Chlorotoluene	<1.0
tert-Butylbenzene	<1.0
1,2,4-Trimethylbenzene	<1.0
sec-Butylbenzene	<1.0
p-Isopropyltoluene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<1.0
n-Butylbenzene	<0.50
1,2-Dichlorobenzene	<1.0
1,2-Dibromo-3-Chloropropane	<1.0
1,2,4-Trichlorobenzene	<1.0
Hexachlorobutadiene	<1.0
Naphthalene	<1.0
1,2,3-Trichlorobenzene	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly  
preserved and in specified  
container. Sample was analyzed  
in accordance with EPA method  
524.2.

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